

Information Data Sheet

Action Detector Tube CO-A

Part No. (US): 804424

Part No. D5085759

1. Application

Quick orientative check of ambient atmosphere for hazardous carbon monoxide (CO) concentrations.

2. Detector Tube Sampling Pump

KWIK DRAW pump, Gas-Tester IIH, Gas-Tester I / ThumbPump-Sampler, Toximeter III, Uniphos Kwik-Draw-Pump or other suitable detector tubes pumps. Observe respective instructions for use.

3. Measuring Range

The action detector tube has two marks conforming the following concentrations:

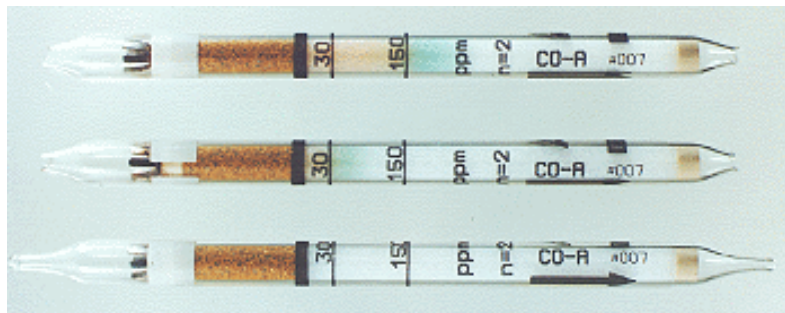
Mark 1: 30 ppm carbon monoxide at n=2 (2 strokes).

Mark 2: 150 ppm carbon monoxide at n=2 (2 strokes).

4. Chemical Reaction and Color Change

Reaction of carbon monoxide with iodine pentoxide in fuming sulfuric acid, by which carbon dioxide and iodine is formed.

Color change: white → Light brown/light green.



5. Ambient Conditions During Sampling

Detector tubes can be used without compensation of the reading between 0 °C and 40 °C (32 °F and 104 °F) and up to 90% rh [46 g/m³ at 40 °C (104 °F)]. Do not use detector tube if protective layer has totally discoloured from brown to yellow by water vapour.

6. Interferences and Cross Sensitivities

- No interference from:
 - hydrogen, methane, Carbon dioxide.
 - ethane up to 5 vol %.
 - sulphur dioxide, nitric oxide, nitrogen dioxide, ammonia up to 5000 ppm.
 - aromatic hydrocarbons (e.g. benzene) up to 1000 ppm. Aromatic hydrocarbons discolour the protective layer from brown to black.
 - chlorine, hydrogen chloride, hydrogen cyanide, phosgene up to 1000 ppm
- Propane and higher saturated hydrocarbons (e.g. butanes, octanes), olefinic hydrocarbons (e.g. ethylene), hydrogen sulphide discolour the protective layer from brown to greenish. At least 500 ppm of propane, olefinic hydrocarbons, hydrogen sulphide are retained. Retention capacity of protective layer is lower in case of higher saturated hydrocarbons.
- Acetylene will be detected: 1000 ppm is indicated as approx. 800 ppm CO.

Manufactured By:

Uniphos Envirotronic Pvt. Ltd (100% EOU)

P.O. Nahuli - 396 108

Tal. Umbergaon,

Dist: Valsad, Gujarat, India

Tel. : +91(260) 2730156 / 57 / 58

Fax : +91(260) 2730160

gasdetection@uniphos-envirotronic.com

Marketing Office:

Uniphos Envirotronic Pvt. Ltd

Readymoney Terrace, 167,

Dr. Annie Besant Road, Worli,

Mumbai 400 018, India.

Tel. : +91(22) 6123 3500

Fax : +91(22) 2493 8826/+91 (22) 2497 8119

www.kwikdrawtubes.com